

AMENDMENTS TO THE SPECIFICATION

Please amend the last paragraph beginning on page 14 and ending on page 15 as follows:

--After suspending transmission of the power control bit, the base station determines again in step 1013 whether there is another packet to transmit. If there is another packet to transmit, the base station transmits a data rate request message for requesting transmission of the DRQ to the mobile station by performing a procedure of FIG. 11 and 12, which will be described later. However, if there is no packet to transmit, the base station determines in step 1015 whether the mobile station attempts reverse transmission. Upon detecting the reverse transmission (or reverse DRQ access) by the mobile station, the base station sends an ACK message for the reverse DRQ access-transmission by performing a procedure of FIG. 13, which will be described later. However, upon failure to detect the reverse DRQ access-transmission by the mobile station, the base station returns to step 1013 to determine again whether there is packet to transmit. Here, the data rate request message can be realized by continuously transmitting a power-up command from the base station to the mobile station, and the ACK message can be realized by continuously transmitting a power-down command from the base station to the mobile station.---

Please amend the last paragraph beginning on page 15 and ending on page 16 as follows:

Referring to FIG. 11, when there is packet to transmit in the power control bit transmission-off period, the base station transmits a DRQ report direction bit for requesting transmission of the DRQ -to the mobile station in step 1101. Thereafter, the base station determines in step 1103 whether a reverse DRQ accesssignal from the mobile station is detected. Upon detecting the reverse signal (or reverse DRQ access signal), the base station repeatedly transmits an ACK bit to the mobile station a prescribed number of times, in step 1111. However, upon failure to receive the reverse DRQ accesssignal, the base station

counts a T125 signal in step 1105, and determines in step 1107 whether a prescribed time period Td1 has expired. Here, the Td1 refers to a time period where the base station transmits the DRQ report direction bit. If the time period Td1 has not expired, the base station returns to step 1101 to transmit the DRQ report direction bit. However, upon failure to detect the reverse DRQ accesssignal until the time period Td1 has expired, the base station drops a packet call in step 1109, on a judgment that the mobile station cannot receive the forward packet data.

Please amend the first full paragraph on page 16 as follows:

FIG. 12 illustrates a modified procedure of FIG. 11 according to an embodiment of the present invention. Upon detecting reverse DRQ accesstransmission from the mobile station while transmitting DRQ report direction bits responsive to the data rate request message, the base station transmits an ACK bit. However, upon failure to detect the reverse DRQ accesstransmission from the mobile station, the base station counts the number of failures to detect the ACK bit responsive to the data rate request message instead of dropping the packet call. The base station drops the packet call only when the counted number exceeds a specific number Ndrq.

Please amend the second paragraph on page 16 as follows:

Referring to FIG. 12, where there is packet to transmit in the power control bit transmission-off period, the base station transmits a DRQ report direction bit responsive to the data rate request message in step 1201, and then determines in step 1203 whether there is reverse DRQ access signal from the mobile station. Upon detecting the reverse signal (or reverse DRQ access), the base station transmits an ACK bit to the mobile station in step 1219. However, upon failure to detect the reverse DRQ access signal, the base station counts a T125 signal in step 1205, and then determines in step 1207 whether the time period Td1 has expired. If the time period Td1 has not expired, the base station returns to step 1201 to transmit again the DRQ report direction bit.

Please amend the last paragraph beginning on page 16 and ending on page 17 as follows:

However, upon failure to detect the reverse DRQ access-signal until the time period Td1 expires after transmitting the DRQ report direction bit, the base station suspends transmission of the DRQ report direction bit in step 1209, and then counts the number $[[N]]R1$ of transmitting the data rate request message in step 1211. The data rate request message, as stated above, refers to a group of the continuously transmitted DRQ report direction bits. Thereafter, the base station determines in step 1213 whether the number $[[N]]R1$ of transmitting the data rate request message is larger than a prescribed number Ndrq. If the transmission number $[[N]]R1$ of the data rate request message is larger than the preset number Ndrq, the base station drops the packet call to be transmitted to the mobile station in step 1221. Otherwise, the base station performs steps 1215 and 1217, to determine whether reverse DRQ access-signal is detected while waiting for a prescribed time Tm4. Upon failure to detect the reverse DRQ access-signal for the prescribed time period Tm4, the base station returns to step 1201 to transmit again the DRQ report direction bit. However, upon detecting the reverse DRQ access-signal within the prescribed time period Tm4, the base station transmits an ACK bit in step 1223.

Please amend the first full paragraph beginning on page 17 as follows:

FIG. 13 illustrates a procedure for transmitting by the base station an ACK message for reverse DRQ access-signal by the mobile station upon detecting reverse access in a power control bit transmission-off period according to an embodiment of the present invention. The base station can either operate in a normal mode immediately after transmitting the ACK message to the mobile station, or operate in the normal mode upon correctly detecting the DRQ after transmitting the ACK message responsive to the reverse preamble as shown in FIG. 3. In the latter case, the mobile station first transmits only the

preamble in the reverse access process, and then transmits the DRQ in the transmission process only upon correctly receiving the ACK message from the base station.

Please amend the last paragraph beginning on page 17 and ending on page 18 as follows:

Referring to FIG. 13, upon detecting a reverse DRQ access-signal, the base station transmits an ACK bit in step 1301, and then determines in step 1303 whether reverse DRQ from the mobile station is detected. Upon detecting the reverse DRQ, the base station operates in the normal packet mode in step 1311. However, upon failure to detect the reverse DRQ, the base station determines in step 1305 whether a prescribed time period Td2 has expired from a transmission start point of the ACK bit. Here, the time period Td2 refers to a period where the base station transmits the ACK bit. If the prescribed time period Td2 has not expired, the base station returns to step 1301 to transmit again the ACK bit responsive to the detected reverse DRQ access-signal. However, upon failure to detect the DRQ until the time period Td2 expires, the base station counts the number of transmitted ACK bits in step 1307. If the counted number is larger than a prescribed number Nack2, the mobile station has not responded to the signal from the base station,; the base station drops the packet call in step 1309. However, if the counted number is not larger than the prescribed number Nack2, the base station waits again for a reverse DRQ access-signal to be received from the mobile station. Thereafter, the base station returns to step 1301, and repeats the succeeding steps.

Please amend the last paragraph beginning on page 16 and ending on page 17 as follows:

--However, upon failure to detect the reverse DRQ access-signal until the time period Td1 expires after transmitting the DRQ report direction bit, the base station suspends transmission of the DRQ report direction bit in step 1209, and then counts the number [[N]]R1 of transmitting the data rate request message times the data rate request message is

transmitted in step 1211. The data rate request message, as stated above, refers to a group of the continuously transmitted DRQ report direction bits. Thereafter, the base station determines in step 1213 whether the number $[[N]]R1$ of transmitting the data rate request message is larger than a prescribed number N_{drq} . If the transmission number $[[N]]R1$ of the data rate request message is larger than the preset number N_{drq} , the base station drops the packet call to be transmitted to the mobile station in step 1221. Otherwise, the base station performs steps 1215 and 1217, to determine whether reverse signal is detected while waiting for a prescribed time $Tm4$. Upon failure to detect the reverse transmission for the prescribed time period $Tm4$, the base station returns to step 1201 to transmit again the DRQ report direction bit. However, upon detecting the reverse signal within the prescribed time period $Tm4$, the base station transmits an ACK bit -in step 1223.--